

APPENDIX J – Streambank Alteration



Figure 1—disturbance is considered trampling when a track caused by a large herbivore exposes at least ½-inch of bare soil. Streambank shearing is the physical displacement of part of the streambank downward toward the stream channel.



Figure 2—the monitoring frame is centered on the greenline and the number of lines ((0 to 5) that intersect streambank alteration (trampling or shearing) is counted and recorded. Lines 1, 2, 4, and 5 intersect streambank alteration. Four is recorded.

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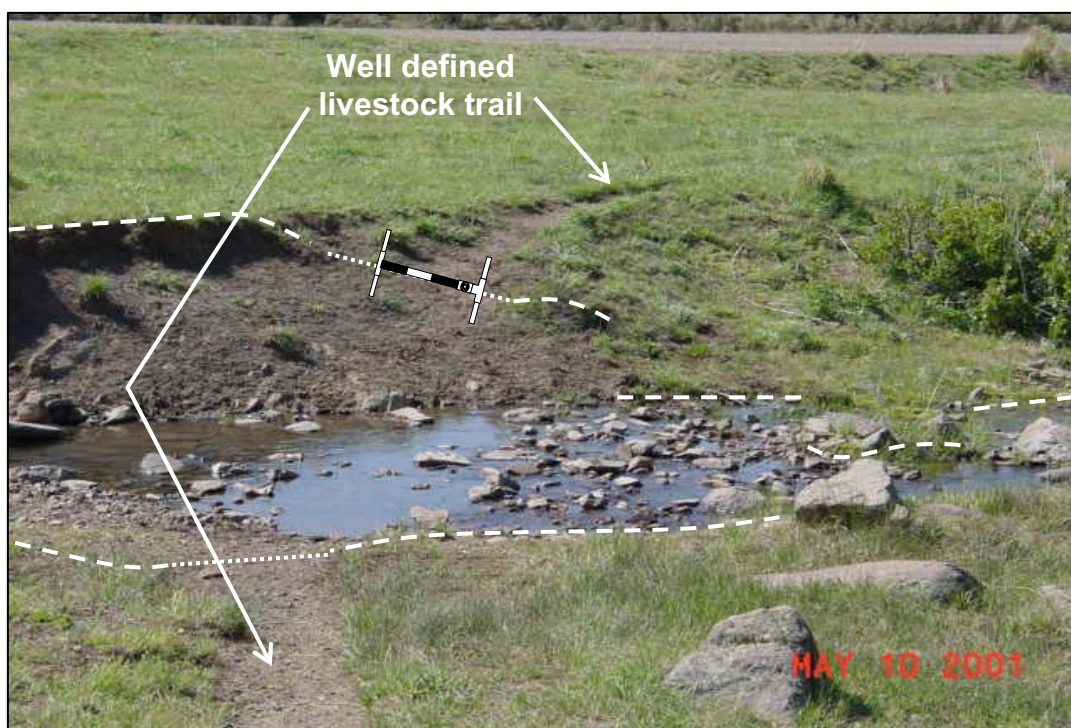


Figure 3—while livestock trails are not considered part of the greenline; they are considered for streambank alteration. The frame is placed at the point of the toe on a line that joins the greenline on either side of the trail. The example above shows the frame on a livestock trail that has been used during the current grazing season. Since all five lines intersect streambank alteration record five.

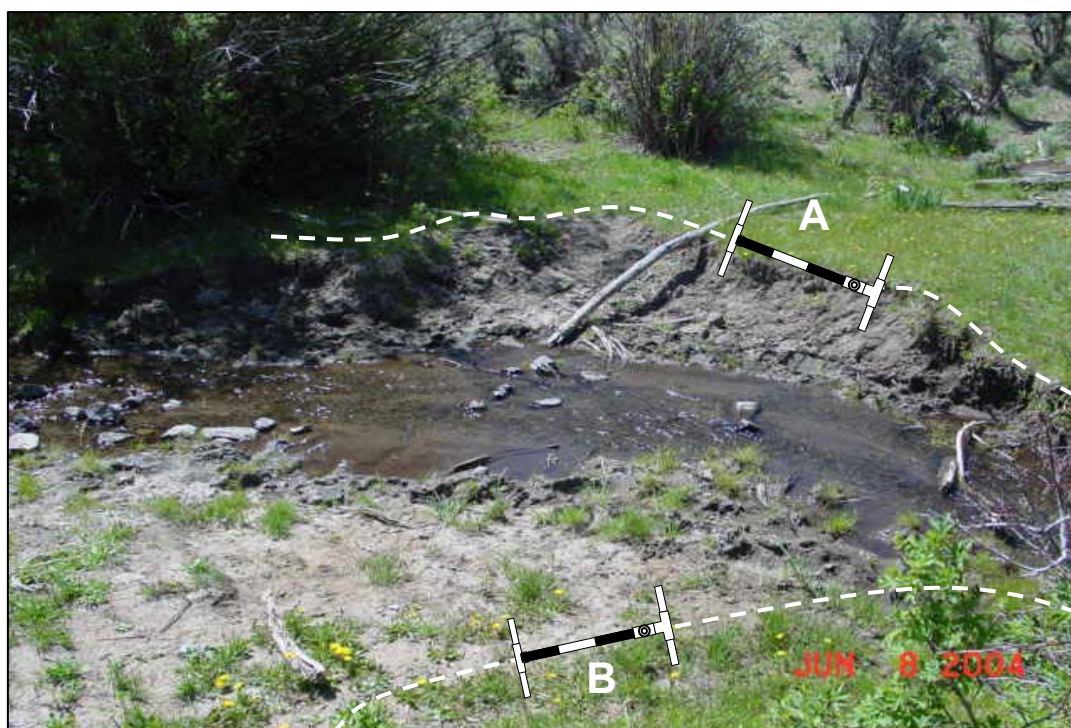


Figure 4—example A is heavily trampled and all five lines intersect streambank alteration. B shows no evidence of current years trampling that displaces soil at least 1/2 inch deep. A zero is recorded.

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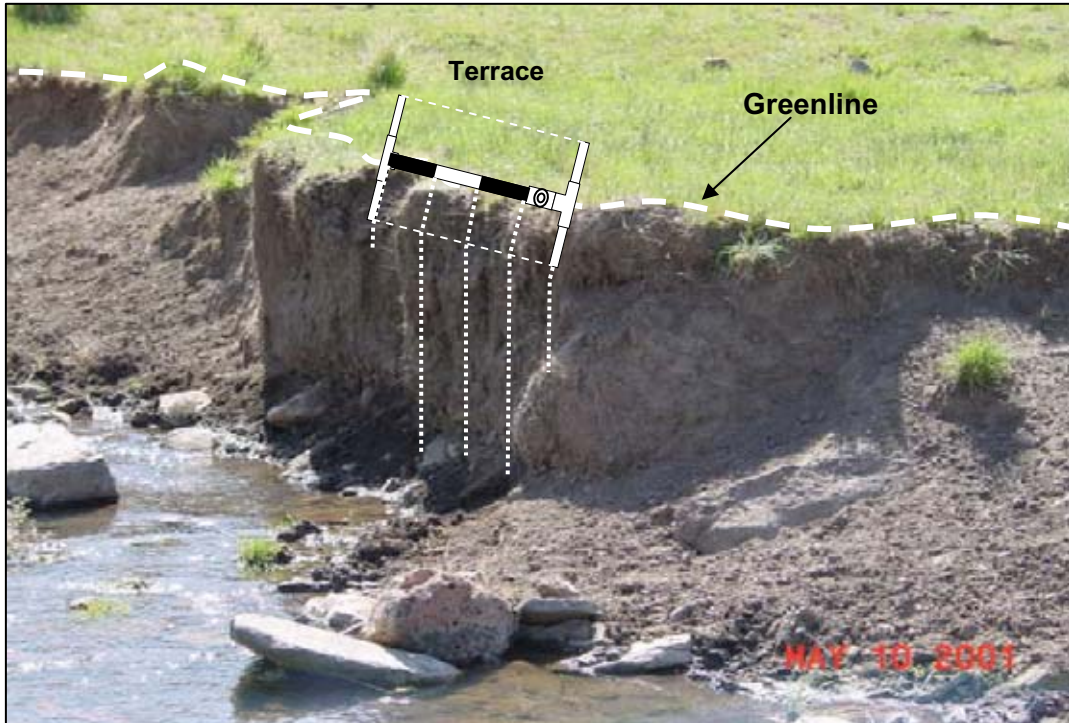


Figure 5—trampling on the terrace is not recorded as streambank alteration, only alteration occurring on the steep face of the bank. The lines are projected for the greenline down the bank, within the quadrat, to the water line. In the example above, line one, nearest the handle, does not intersect alteration. Line two does, lines 3 and 4, do not, and line 5 intersects a shear along the face. A total of two is recorded.

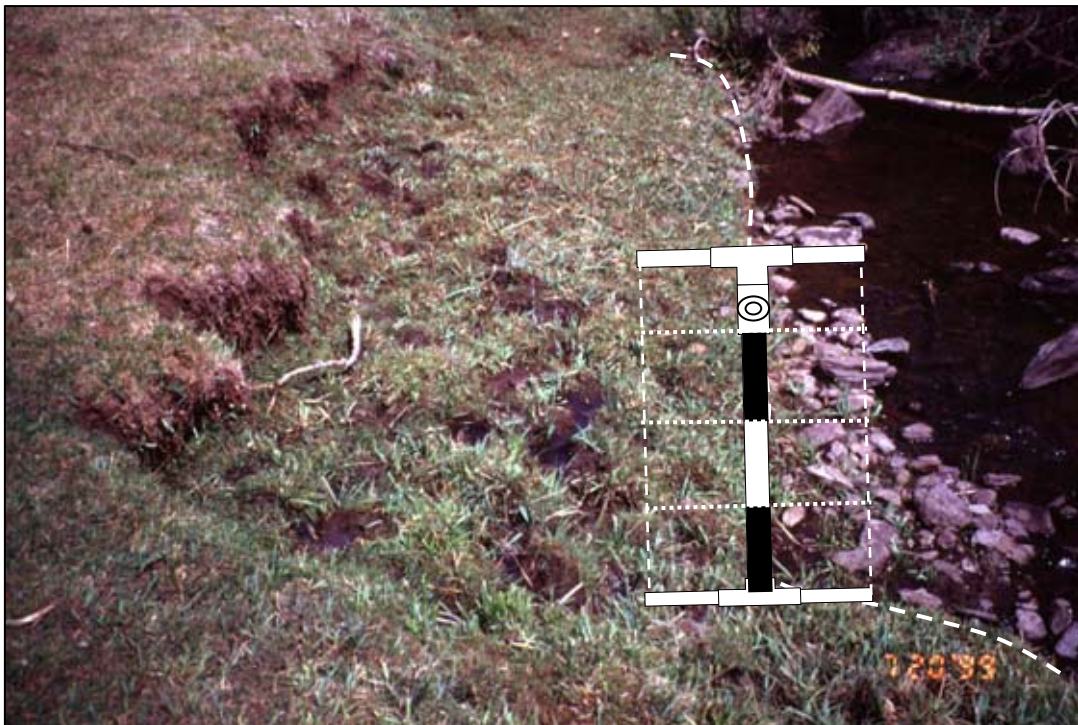


Figure 6—no evident streambank alteration intersects lines any of the lines within the quadrant. Zero is recorded.

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Figure 7—lines 2 and 4 intersect streambank alteration caused by livestock. Two is recorded.



Figure 8—current season streambank alteration is difficult to distinguish from previous season use. Streambank alteration measurements should be made while livestock are still in the pasture or within two weeks of leaving. Streambank alteration should not be conducted on a site such as this when the alteration is difficult to distinguish from previous season grazing.